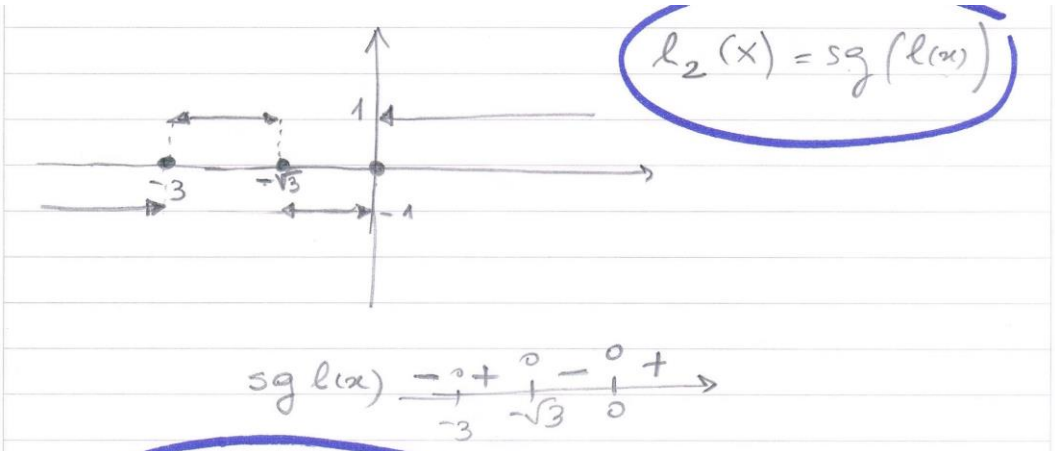
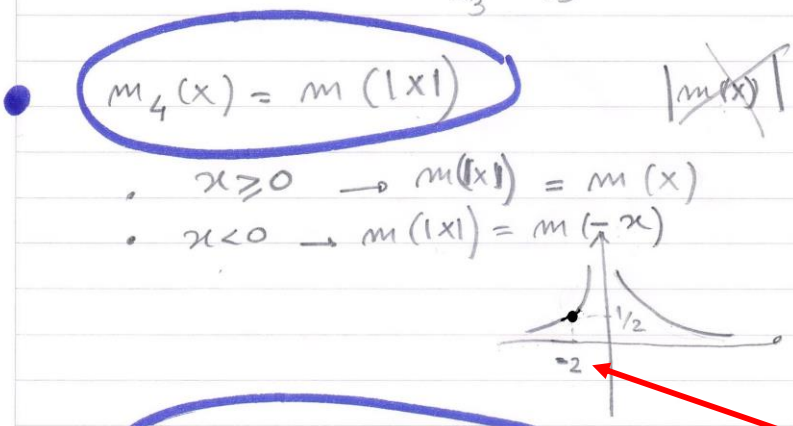
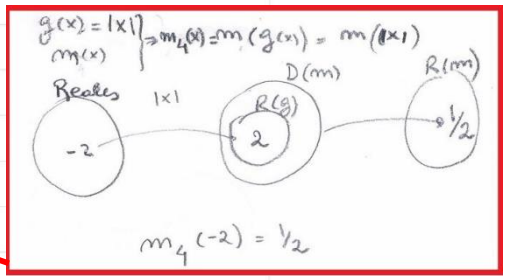
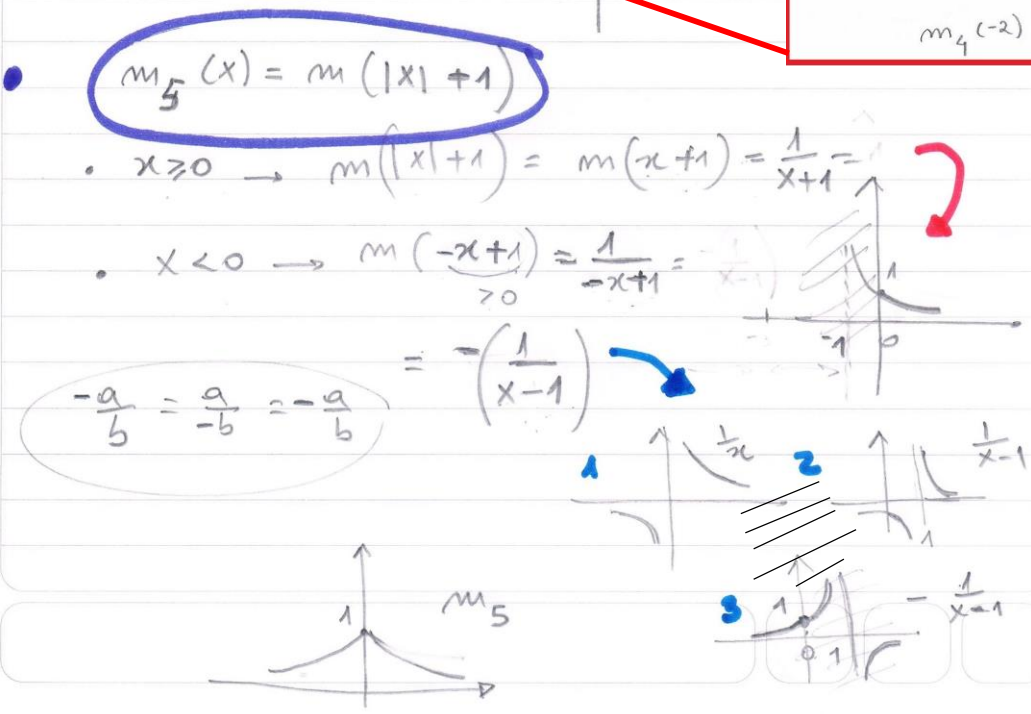
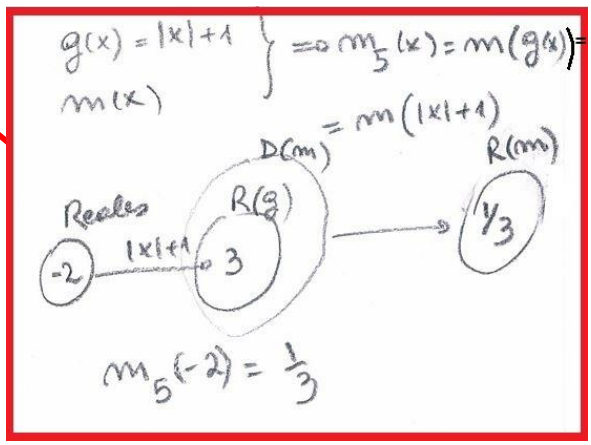
Clase por Discord- 5 de mayo



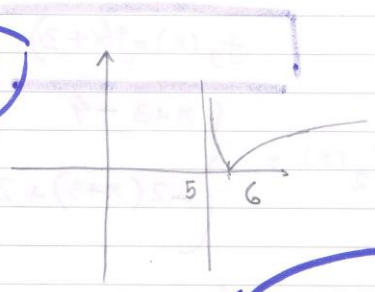




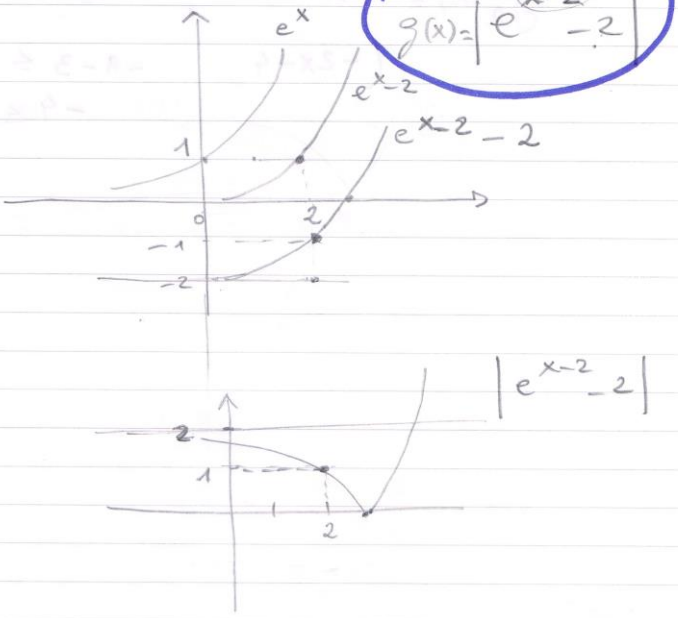




- $f(x) = |L(x-5)|$



- $g(x) = |e^{x-2} - 2|$



Escribir la expresión de la función transformada

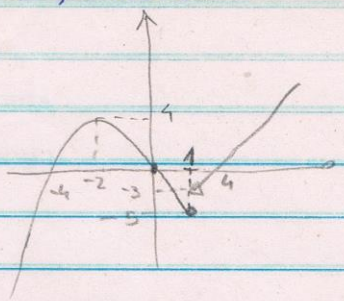
- $f_2(x) = f(x+3)$

$$f_2(x) = \begin{cases} x+3-4 & , \quad x+3 \geq 2 \\ -2(x+3)+2 & , \quad -1 \leq x+3 < 2 \end{cases}$$

$$f_2(x) = \begin{cases} x-1 & , \quad x \geq -1 \\ -2x-4 & , \quad -1-3 \leq x+3-3 < 2-3 \\ & \quad -4 \leq x < -1 \end{cases}$$

- Expresiones de las transformadas.

- $f(x) = \begin{cases} -x^2-4x, & x \leq 1 \\ x-4, & x>1 \end{cases}$

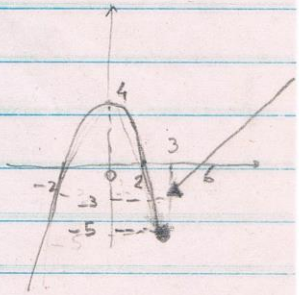


$|f(x)| = \begin{cases} x^2+4x, & x<-4 \\ -x^2-4x, & -4 \leq x \leq 0 \\ x^2+4x, & 0<x \leq 1 \\ -x+4, & 1<x \leq 4 \\ x-4, & x>4 \end{cases}$

$-f(x) = \begin{cases} x^2+4x, & x \leq 1 \\ -x+4, & x>1 \end{cases}$

$f(x)-2 = \begin{cases} -x^2-4x-2, & x \leq 1 \\ x-6, & x>1 \end{cases}$

$f(x-2) = \begin{cases} -(x-2)^2-4(x-2), & x-2 \leq 1 \\ x-2-4, & x-2>1 \end{cases}$



$-x^2+4x-4-4x+8$

$\begin{cases} -x^2+4, & x \leq 3 \\ x-6, & x>1 \end{cases}$